PNEUMATIC ACTUATORS

DOUBLE ACTING/SPRING RETURN

PNEUMATIC ACTUATORS
**Working Condition**

Temperature: from 0º to + 80ºC; from -20ºC to +80ºC with dry air only. (from -40ºC to +150ºC in special execution)
Air supply: Minimum 40 psi; Maximum 130 psi
Operating media: Compressed filtered air, not necessarily lubricated. In case of lubricated air, either non detergent oil or NBR compatible oil, must be used.

**Double Acting Operation**

*CCW
Air is supplied to Port A forcing the pistons away from each other (towards ends), rotating the drive pinion counter-clockwise and exhausting air out of Port B

*CW
Air is supplied to Port B forcing the pistons toward each other (towards center), rotating the drive pinion clockwise and exhausting air out of Port A

**Spring Return Operation**

*CCW
Air is supplied to Port A forcing the pistons away from each other (towards ends), rotating the drive pinion counter-clockwise, compressing the springs and exhausting air out of Port B

*FAIL CW
Air failure (loss of pressure) allows the compressed springs to force the pistons toward each other (towards center), rotating the drive pinion clockwise and exhausting air out of Port A
### PNEUMATIC ACTUATORS

#### MATERIALS OF CONSTRUCTION

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### ACTUATOR OUTPUT TORQUE CHARTS

#### AIR CONSUMPTION (cubic in.)

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1 - “Spring Output Torque” is under “Lost Air” condition & “Actuator Output Torque” is under spring force condition

2 - Normally Open Valve: Actuator at 0 degrees, valve is closed; actuator at 90 degrees, valve is open.

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Note: The above actuator output torque data has factored in the loss due to friction and passing of the force. The actual output torque of the actuator will be no less than the above data.
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